The following site is being submitted for inclusion into the GIS registry:

This is a:	New Submittal
BRRTS ID (no dashes):	**0371100470**
Comm # (no dashes):	54963103010
County:	Winnebago
Region:	Commerce
Site name:	Automotive Specialists
Street Address:	310 N Webster Ave
City:	Omro
Closure Date	2001-05-23
Closure Conditions:	met
Offsite contamination?	No
Right-of-way contamination?	No
Contaminated media:	Groundwater
GPS Coordinates (meters in the **WTM91** projection)	
Easting (X):	620616.115236802
Northing (Y):	397221.221804858
Submitted by:	Cheryl Nelson

Checklist

- ☒ Final Closure Letter
- ☒ Copy of recorded deed Instrument for any property with GW >NR140 ES
- ☒ General Location Map
- ☒ Detailed Location Map showing property boundaries, buildings, etc for properties with GW >NR140 ES
- ☒ Latest Map(s) showing extent or outline of current GW plume
- ☒ GW flow direction
- ☒ MW(s) and/or potable wells
- ☒ Latest Table of GW results

ENVIRONMENTAL & REGULATORY SERVICES
2129 Jackson Street
Oshkosh, Wisconsin 54901
(920) 424-0025
TDD #: (608) 264-8777
www.commerce.state.wi.us

Scott McCallum, Governor
Brenda J. Blanchard, Secretary

Wisconsin
Department of Commerce

May 23, 2001

Mr. Gerald Hitchcock
310 N. Webster Avenue
Omro, WI 54963

Subject: **Case Closure** – Automotive Specialists Site
310 N. Webster Ave., Omro
COMMERCE #54963-1030-10 DNR #03-71-100470

Dear Mr. Hitchcock:

I have reviewed the information submitted by your consultant to satisfy the conditions of closure set in the Conditional Closure letter dated November 28, 2000. The department has determined that all the conditions of closure have been met. **The site will now be listed as "closed"** on the Department of Commerce/Department of Natural Resources database.

Thank you for your efforts in protecting the environmental resources of the State of Wisconsin.

If you have any questions, please contact me at (920)424-0025.

Sincerely,

Thomas Verstegen
Department of Commerce
PECFA-Site Review Section

cc: PECFA File – pf\pecfa\549\54963\103010\close-final.doc
Mr. Martin Johnson – Environmental Assessments

Document Number

NOTICE OF CONTAMINATION TO PROPERTY

1112898

REGISTER'S OFFICE
WINNEBAGO COUNTY, WI
RECORDED ON

12-01-2000 10:25 AM

SUSAN WINNINGHOFF
REGISTER OF DEEDS

RECORDING FEE 14.00
TRANSFER FEE
OF PAGES 3

Legal Description of the Property: In re:

(as it appears on the most recent deed)

Recording Area

Name and Return Address
Gerald F. Hitchcock
4973 County Road E
Oshkosh WI 54904

Parcel Identification Number (PIN)

STATE OF WISCONSIN)
) ss
COUNTY OF)

Section 1. Kathleen L. Hitchcock is the owner of the above-described property.

Section 2. One or more petroleum discharges have occurred at this property. Benzene and Naphthalene contaminated groundwater above NR 140 enforcement standards and soils above NR 720 residual contaminant levels of the Wisconsin Administrative Code exist(s) on this property.

Section 3. The owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitations and/or restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific prohibitions or requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed or reconstructed on this property unless applicable requirements are met.

Also,

Residual petroleum contaminated soil remains on this site. Natural attenuation is the approved remedial alternative for this site. If contaminated soil is excavated in the future, it may be considered a solid waste and will need to be disposed in accordance with all applicable laws.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Commerce, or its successor, issue a determination that the restrictions set forth in this covenant are no longer required. That property owner shall provide any and all necessary information to the Department in order for the Department to be able to make a determination. Upon receipt of such a request, the Department shall determine whether or not the restrictions contained herein can be extinguished. Conditions under which a restriction may be extinguished will be

determined in accordance with the site specific standards, rules and laws for this property. If the Department determines that the restrictions can be extinguished, an affidavit, with a copy of the Department's written determination, may be recorded to give notice that this restriction, or portions of this restriction are no longer binding. Any restriction placed upon this property shall not be extinguished without the Department's written determination.

IN WITNESS WHEREOF, the owner of the property has executed this document, this 1st day December, 2000.

[When appropriate use the following clause]:

By signing this document, [he/she] acknowledges that [he/she] is duly authorized to sign this document on behalf of myself.

Signature: Kathleen L Hitchcock

Printed Name: Kathleen L Hitchcock

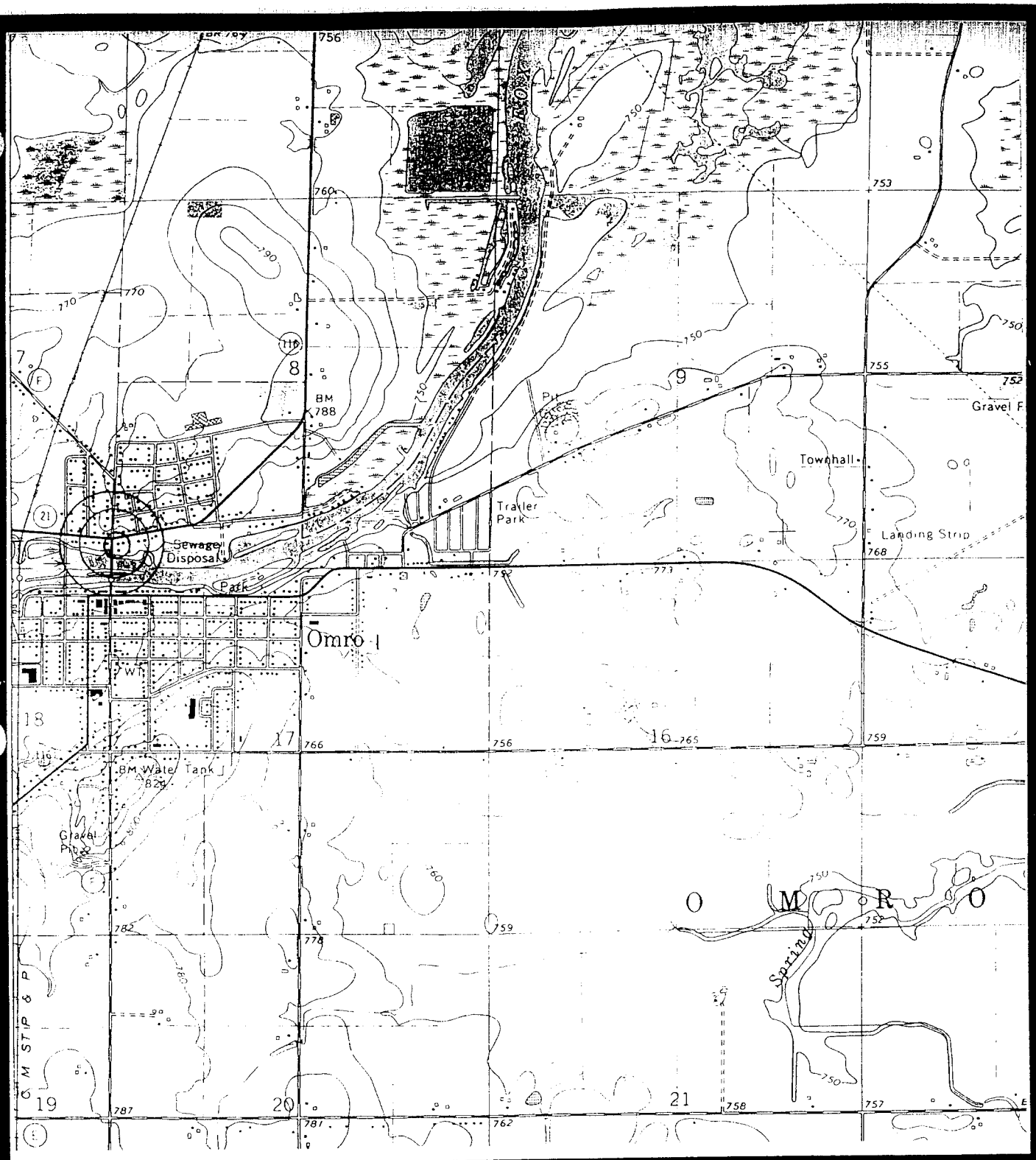
Title: Owner

Subscribed and sworn to before me
this 1st day of December 2000

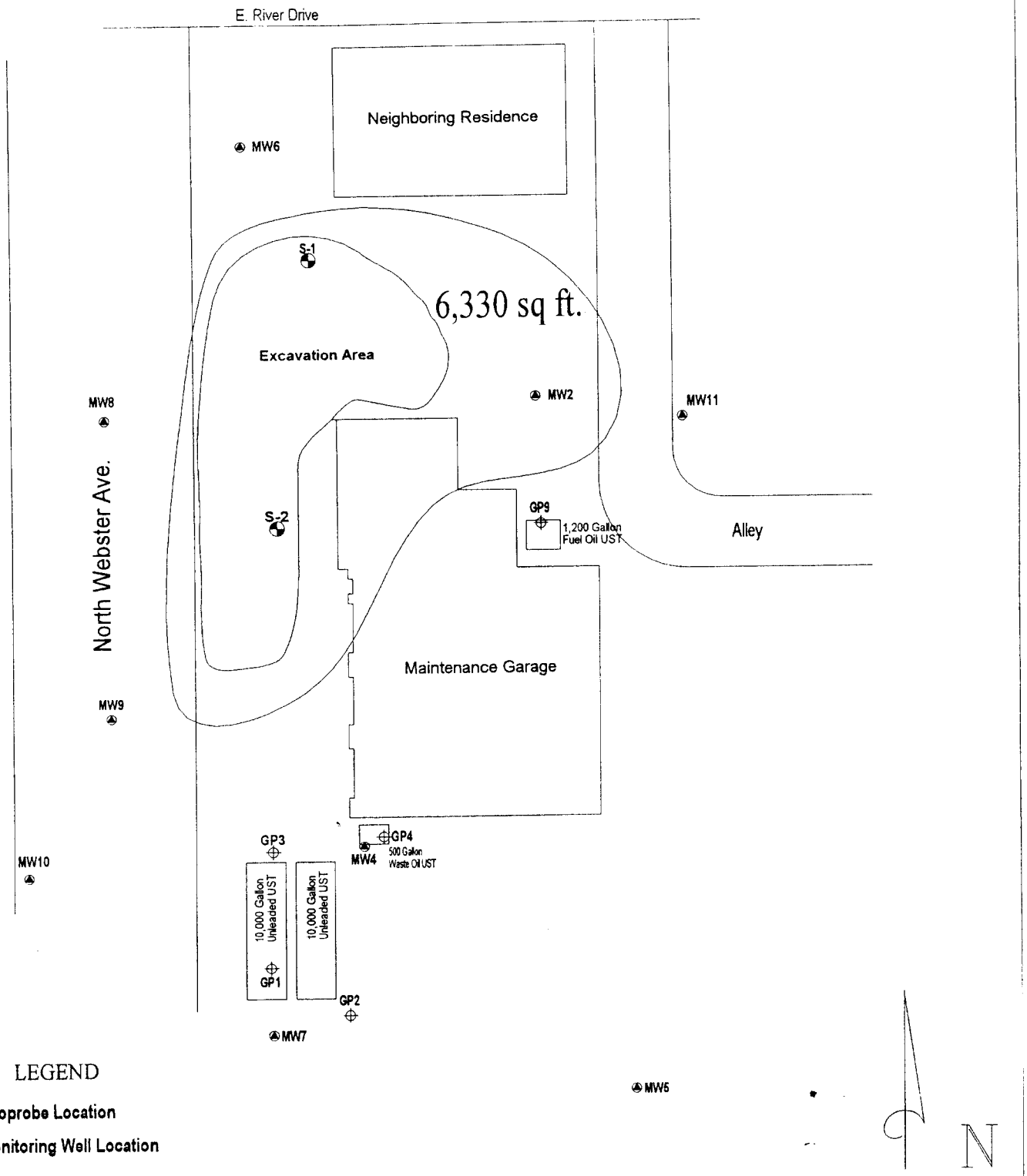
Stephanie D. Brester

Notary Public, State of Wisconsin
My commission expires 7-01-01

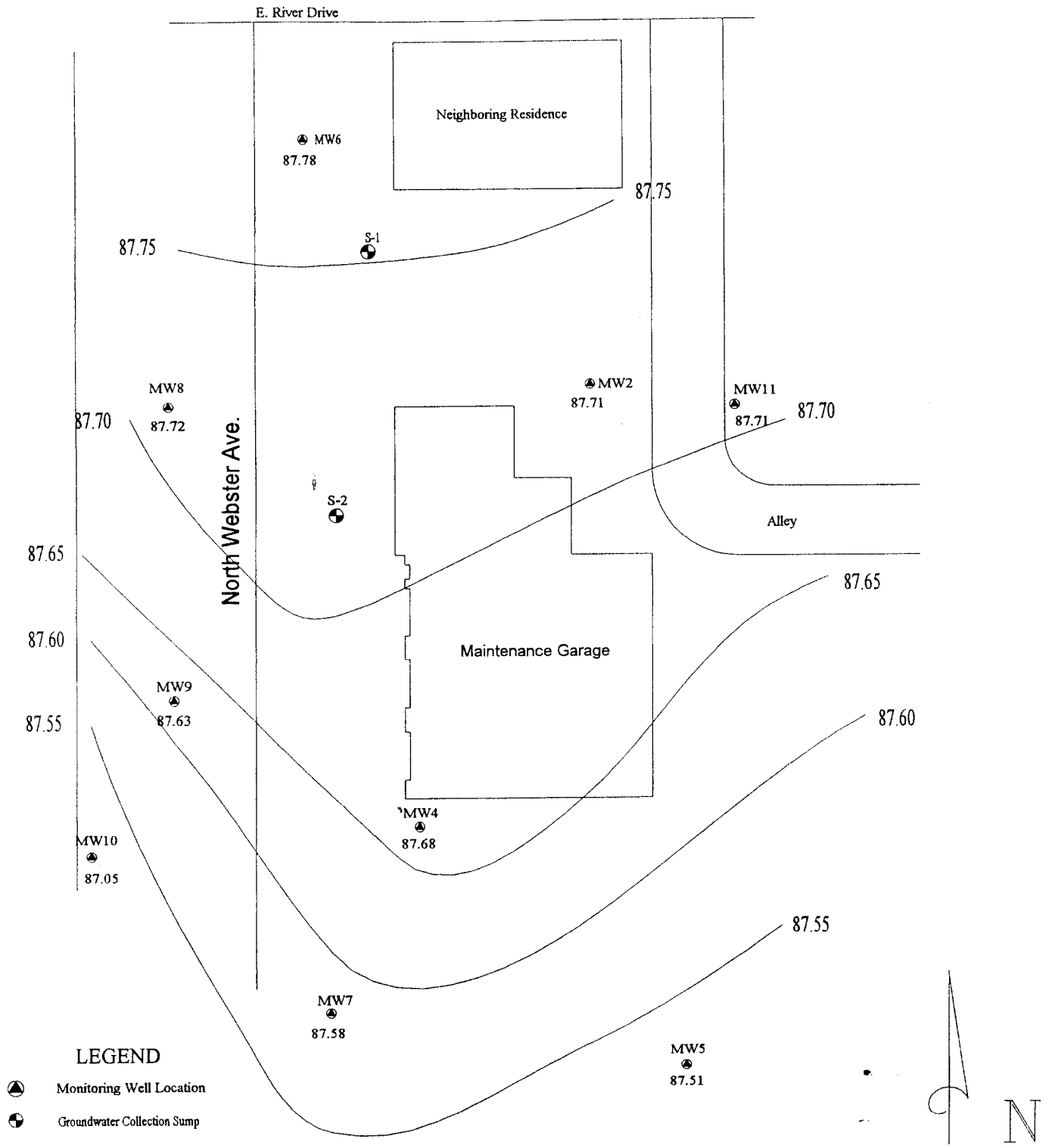
This document was drafted by the Wisconsin Department of Commerce.



ENVIRONMENTAL ASSESSMENTS, INC.	Project/Client **Site Location Map - Regional Scale** **Gerald Hitchcock Property** **310 N. Webster Avenue** **Omro, Wisconsin** (7.5 Minute series USGS Topographic Map of Omro, 1975)	Figure No.	1
		Drawn By	MJJ
		Scale	1" = 2,000 ft
		Project No.	20123010296



ENVIRONMENTAL ASSESSMENTS, INC. P.O. BOX 9127 APPLETON, WISCONSIN (920) 749-9746 FAX (920) 749-9748	Title: Remaining Groundwater Contamination Plume Map	Figure # 2
	Project: Gerald Hitchcock Property 310 N. Webster Ave. Omro, Wisconsin	Scale : 1" = 30'
		Drafted By: M. Johnson



Environmental Assessments, Inc. P.O. Box 9127 Appleton, Wisconsin (920) 749-9746 Fax (920) 749-9748	Title: Estimated Groundwater Elevations (8/9/00)	Figure # 2
	Project: Gerald Hitchcock Property 310 N. Webster Ave. Omro, Wisconsin	Scale : 1" = 30'
		Drafted By: M. Johnson

Table I
Gerald Hitchcock Property
Groundwater Elevations Table

Well ID	Grade	Casing	10/01/96	10/18/96	04/23/97	09/08/97	03/30/98	06/17/98	09/16/98	09/16/99	12/29/99	04/21/2000	08/09/2000
MW1	96.41	96.07	89.67	87.82	89.09	88.13	88.39	88.46	87.59	**	**	**	**
MW2	95.62	95.35	87.69	87.57	88.25	87.82	87.57	88.00	87.31	87.75	87.03	87.50	87.71
MW3	95.69	95.49	87.68	87.56	88.24	87.82	87.57	88.00	87.31	**	**	**	**
MW4	95.24	94.83	87.61	87.50	88.18	87.75	87.52	87.93	87.29	87.70	86.99	88.16	87.68
MW5	88.66	91.49	87.52	87.43	88.01	87.59	87.36	87.77	87.12	87.53	86.84	87.36	87.51
MW6	97.38	96.76	87.86	87.63	88.27	87.88	87.64	88.07	87.38	87.85	87.09	87.56	87.78
MW7	94.19	93.78	87.27	87.24	87.79	87.66	87.46	87.79	87.44	87.63	86.91	87.48	87.58
MW8	95.90	95.69	**	**	88.27	87.84	87.62	88.01	87.32	87.77	87.02	87.50	87.72
MW9	95.26	94.74	**	**	88.15	87.73	87.57	87.94	87.30	87.71	86.98	87.49	87.63
MW10	94.99	94.52	**	**	87.63	87.05	87.17	87.32	87.09	87.21	86.48	87.64	87.05
MW11	95.50	95.16	**	**	88.24	87.80	87.56	87.98	87.30	87.75	87.01	87.50	87.71
PZ1	96.49	96.09	87.71	79.22	71.40	87.84	87.60	88.01	87.33	**	**	**	**
S-1	97.17	96.26	**	**	**	**	**	**	**	87.71	86.94	87.45	87.38
S-2	95.56	94.77	**	**	**	**	**	**	**	87.68	86.91	87.42	86.43

Notes:
** = Data not available

Table IV
Gerald Hitchcock Property
Summary of Field Inorganic Parameters

Well ID	Date	Temperature Celsius	Dissolved Oxygen (mg/L)	Nitrate mg/L	Ferrous Iron mg/L	Sulfate mg/L	pH
MW1							
	03/30/98	6.2	0.16	8.8	9.5	> 100	6.7
	06/17/98	12.5	0.23	5.9	4.5	95	6.7
	09/16/98	16.1	0.18	3.5	3.7	90	6.8
	Well removed during soil excavation activities						
MW2							
	03/30/98	7.6	0.19	**	1.8	7.0	7.1
	06/17/98	12.0	0.23	**	**	**	7.0
	09/16/98	15.6	0.14	**	**	**	**
	09/16/99	15.7	0.20	0.9	2.6	24	7.2
	12/29/99	11.6	0.68	0.3	2.8	28	7.1
	04/21/2000	8.6	0.32	2.3	3	0	7.2
	08/09/2000	**	**	**	**	**	**
MW3							
	03/30/98	8.0	0.25	5.0	6.0	5.0	6.8
	06/17/98	12.2	0.25	**	**	**	6.7
	09/16/98	16.9	0.33	**	**	**	**
	Well removed during soil excavation activities						
MW4							
	03/30/98	7.8	1.05	**	5.7	11.0	6.9
	06/17/98	13.3	0.24	**	**	**	7.0
	09/16/98	16.1	0.23	**	**	**	**
	09/16/99	15.0	0.18	1.4	0.9	38	7.2
	12/29/99	13.2	0.55	**	4.4	20	6.7
	04/21/2000	8.2	9.58	7.5	0.3	18	7.1
	08/09/2000	**	**	**	**	**	**
MW5							
	03/30/98	8.3	0.42	1.8	1.6	53	7.0
	06/17/98	10.9	0.63	**	**	**	7.0
	09/16/98	17.1	0.58	**	**	**	**
	09/16/99	14.4	0.94	**	2.2	62	7.1
	12/29/99	10.7	0.82	1.6	1.6	62	7.1
	04/21/2000	8.5	0.31	4.8	2.2	47	6.9
	08/09/2000	15.2	0.32	**	1.4	60	7.2
MW6							
	03/30/98	8.8	0.78	1.2	< 0.25	48	7.4
	06/17/98	11.2	3.25	3.1	0.3	48	7.4
	09/16/98	13.7	0.31	2.2	< 0.25	47	7.4
	09/16/99	14.4	0.62	1.9	< 0.25	46	7.3
	12/29/99	13.2	1.86	3.8	0.9	37	7.3
	04/21/2000	9.6	1.01	4.6	0.4	37	7.4
	08/09/2000	15.8	1.04	1.1	0.3	39	7.4
MW7							
	03/30/98	6.9	0.42	2.4	0.9	90	7.2
	06/17/98	12.5	0.28	1.5	1.0	32	7.2
	09/16/98	17.0	0.27	**	0.9	47	7.2
	09/16/99	16.6	0.80	1.1	1.8	25	7.2
	12/29/99	12.0	1.11	2.8	1.7	31	7.1
	04/21/2000	8.4	0.64	2.9	2.5	38	7.0
	08/09/2000	**	**	**	**	**	**

MW8							
	03/30/98	8.5	0.30	**	3.0	10.0	6.7
	06/17/98	13.4	0.95	**	2.6	27	6.6
	09/16/98	17.7	0.38	**	1.0	38	6.9
	09/16/99	16.6	0.82	**	1.4	35	6.9
	12/29/99	13.6	1.14	0.3	0.9	33	7.0
	04/21/2000	9.1	0.64	0.2	1.9	32	6.7
	08/09/2000	15.3	0.68	**	1.0	34	7.1
MW9							
	03/30/98	9.2	0.24	**	1.0	32	7.2
	06/17/98	12.1	0.29	**	**	**	7.2
	09/16/98	15.4	0.19	**	**	**	**
	09/16/99	15.2	0.44	1.1	1.0	41	7.3
	12/29/99	13.4	0.70	3.3	1.0	41	7.3
	04/21/2000	9.8	0.45	1.7	1.3	44	7.3
	08/09/2000	**	**	**	**	**	**
MW10							
	03/30/98	8.1	0.33	**	1.7	18	7.0
	06/17/98	12.6	0.23	**	**	**	7.0
	09/16/98	16.5	0.18	**	**	**	**
	09/16/99	15.0	0.22	0.8	2.6	28	7.2
	12/29/99	12.9	0.77	2.3	2.6	28	7.0
	04/21/2000	9.1	0.45	2.4	3.2	26	7.0
	08/09/2000	**	**	**	**	**	**
MW11							
	03/30/98	7.5	6.93	0.5	0.3	80	7.1
	06/17/98	12.5	5.64	2.7	0.3	87	7.0
	09/16/98	16.9	4.04	2.8	< 0.25	72	7.0
	09/16/99	15.9	3.23	1.1	0.7	49	7.0
	12/29/99	12.2	3.84	**	0.9	45	7.2
	04/21/2000	8.7	4.26	4.9	< 0.25	53	7.2
	08/09/2000	14.8	4.30	**	0.8	52	7.2
PZ1							
	03/30/98	7.9	0.41	1.9	0.8	45	7.4
	06/17/98	11.7	6.30	0.9	1.2	71	7.2
	09/16/98	14.9	1.40	2.0	0.9	52	7.4
	Piezometer removed during soil excavation activities						
S-1							
	09/16/99	16.8	0.45	1.5	< 0.25	70	7.1
	12/29/99	12.0	1.54	2.4	0.7	70	7.1
	04/21/2000	8.9	2.70	3.8	1.8	22	6.9
	08/09/2000	15.1	2.73	1.0	0.3	33	7.4
S-2							
	09/16/99	17.6	0.50	1.3	0.4	42	7.2
	12/29/99	12.2	0.62	3.0	1.1	62	7.2
	04/21/2000	8.5	2.08	3.9	0.7	62	7.2
	08/09/2000	**	**	**	**	**	**

** Data not available or not collected

Upgradient well = MW6
Inner Plume well = S-1
Downgradient Wells = MW5, MW7 & MW10

Calculations for determining the assimilative capacity of the groundwater environment are presented below[4].

Assimilative Capacity of BTEX per unit of electron acceptor utilized/produced (mg/l or ppm)				
	Oxygen	Nitrate	Sulfate	Iron
Average BTEX degraded per mg/L of electron donor/acceptor produced[1] "C"	0.32	0.21	0.21	0.05
Measured Background Concentration (MW6 - 04/21/00)	1.01	4.6	37	0.4
Measured Inner Plume Concentration (S-1 - 04/21/00)	2.7	3.8	22	1.8
Assimilative Capacity Potential (mg/L)	-0.5408	0.168	**3.15**	-0.07
Total calculated mg/L of BTEX in the groundwater				**1.39**

Assimilative capacity is determined by using the following equation:

$$BTEX_{bio"x"} = "C"(x_{back} - x_{measure})$$

$BTEX_{bio"x"}$ = BTEX Assimilative Capacity Potential of measured electron acceptor
"C" = mg/L of BTEX degraded per electron acceptor used/produced
x_{back} = mg/L of electron acceptor/donor measured background levels
$x_{measure}$ = mg/L of electron acceptor/donor in inner plume monitoring point

Based on this information, the assimilative capacity of the groundwater appears to be sufficient for the natural attenuation of the estimated remaining contaminants. EA believes that the assimilative capacity is sufficient for the bioremediation of the remaining contaminants within a reasonable period of time. The most likely pathway for degradation of the greatest amount of BTEX contamination appears to be anaerobic biodegradation via sulfate reduction followed by denitrfication. Iron reduction and arobic repiration do not appear to be significant factors in the natural attenuation at this site.